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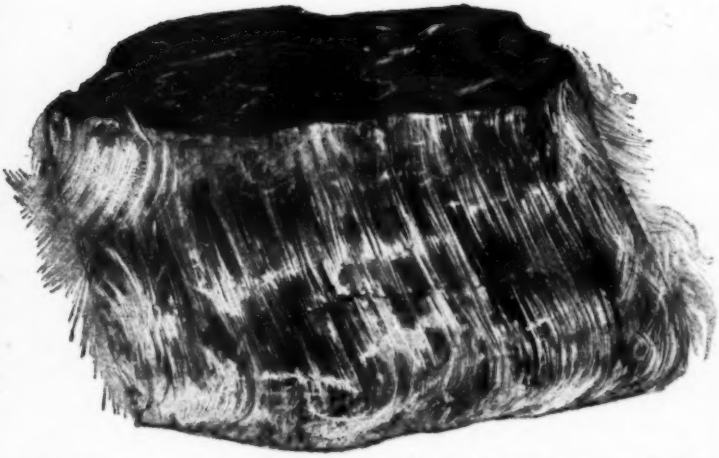

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THE OUTLOOK FOR CROCIDOLITE ASBESTOS

By: W. E. Sinclair, M.I.M.M.

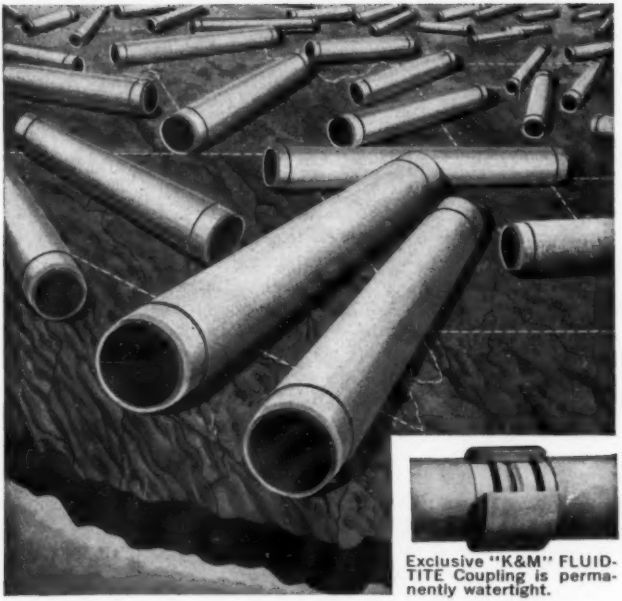
A few months ago it was suggested that a tightening effect on the asbestos markets was causing a demand for amosite in excess of available supplies.* Today, crocidolite asbestos, especially in the Cape field, is suffering a reverse effect; that is, an apparent falling demand, resulting in producers being left with large quantities of unsold stocks on hand. Failing any noticeable change in world market conditions the position is difficult to account for and, as a consequence, is quite naturally causing much speculation and concern amongst producers.

Reports from world manufacturing centers refute the idea that the falling demand is the result of the American recession in 1958. Indeed, industrial market news from the U.S.A. (the most important asbestos manufacturing country in the world) indicates a growing improvement in general business in the past six months with special emphasis on asbestos-cement products, the outlook for which continues to promise improvement in 1960. Also, the building and constructional field shows increasing activity and therefore, a growing demand for crocidolite. It has recently been recorded that in several manufacturing countries factories producing asbestos-cement products, and especially high pressure pipes, are increasing capacity to cope with an increase in orders.

The value of crocidolite in the manufacture of asbestos-cement materials is too well known to require any substantiation. It is a fact that no substitutes are known that provide the essential qualifications of the Blue fibres, such as their free filterability and high tensile strength, plus the harsh texture and the imbrications of the fibres, properties that are so valuable in achieving the most perfect results in the wet mix.

It is not only in this sphere, however, that crocidolite is in continuous demand, but in many other reinforcing and ancillary applications where certain chemical resist-

*"The Outlook for Amosite Asbestos", by the Author. "ASBESTOS April 1959.



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ance, higher moduli and good heat resistance are essential attributes.

In these circumstances, the prevailing market position as it affects this field appears even more obscure especially as the Cape Blue fibres normally assume priority in asbestos-cement fabrication. Indeed, the production of the raw material from this field has always been the world's main source of supply. The total output (Cape and Transvaal) in 1958 was over seventy-eight thousand tons, of which sixty-five thousand tons were exported to various manufacturing countries. Although not classed as a strategic mineral, there is a strong demand for this type of asbestos in the U.S.A. for many important applications and especially in the manufacture of asbestos-cement products. In the past ten years, (1948 to 1958), this country has increased her imports of crocidolite from 4,000 tons to nearly 20,000 tons annually.

In many cases crocidolite production is undertaken by companies that possess their own factories, but there are many more independent mines whose output is sold to the larger companies or offered on the open market through agents. As so often occurs, in asbestos producing countries, only a limited tonnage is used locally in asbestos products fabrication. The question of standard grading and classification of crocidolite fibres has already been considered*, and it may be that the absence of any general grading and the consequent lack of uniformity of fibre grades produced is responsible indirectly for the declining demand, for after all, ungraded asbestos of any class of fibre is not readily sold. However, what is more likely to be a factor of extreme importance in this question, is the matter of quality. Recently, manufacturers have pointed out that the general quality of "Blue" has seriously deteriorated. This is evident mainly in the shorter fibres, an increase in rock particles and extreme fines in the form of finely ground ironstone. Some fibres are so short that they fall into the "filler" class. Actually, this state of affairs is more serious than lack of grading, but the two points are definitely complementary in stressing the complete lack of quality. Quality control is far more important than large outputs if maximum sales are to be maintained. This should be a

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set maxim amongst all producers.

The Cape crocidolite deposits have always been considered the largest known, but, in recent years, extended exploitation and deep development, have disproved the original theories, except perhaps in the northern Kuruman areas where recent finds give promise of more substantial deposits and increased reserves of good quality "Blue". Unfortunately, this cannot be said of the Transvaal crocidolite which is rather inferior in quality and the occurrences somewhat patchy.

The same might be said of Bolivian and Austrian crocidolite, where the production is limited and the fibres rather weak. This class of fibre was favored at one time in gas mask filters and such uses, but nowadays glass fibres have been found to replace crocidolite. Other substitutes, mainly in the field of plastics, have a limited application in certain spheres. Otherwise good quality crocidolite is not readily displaced by alternative materials.

Australia is virtually a newcomer in the crocidolite field having started production on the Hammersley Range not so very many years ago. In this relatively short period, however, output from this region has risen steadily (ranging from 1,400 to 4,500 tons from 1951 to 1955) and in the past year or so, has sky-rocketed to over 11,000 tons in 1957. In 1958, it is more than likely that the total output will have been nearly double this figure. Indeed it seems feasible that this increasing Australian crocidolite production may also have something to do with the apparent minor slump in South Africa.

To support this possibility is the fact that the Australian "Blue" is of high quality and the resources of these deposits are extensive because of the relative regularity of the mineral distribution. Occurrences of crocidolite veins extend in nearly horizontal beds, associated with quartzites and limestones, for some 180 miles, where they outcrop in the sides of gorges along the Hammersley Range. Although the location of these deposits is somewhat isolated, which means high transport costs, production up to 6,000 tons annually is subsidized by a Commonwealth subsidy paid through the Government. This has assisted materially in providing increased milling operations and mechanized

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mining methods, the results of which are reflected in the surprising step-up in asbestos recovery.

It is said that the Johns-Manville Corporation has interested itself in the Australian undertakings, a not unlikely step since the Johns-Manville Corporation is one of the world's major users of "Blue" asbestos in its multifarious manufacturing projects. If this is so, it may present yet another possible explanation of the retrograde condition of other markets.

*"Grading Crocidolite Asbestos", by the Author. "ASBESTOS" February 1959.

THE AMERICAN SOCIETY FOR TESTING MATERIALS has announced the publication of its 1959 ASTM *Proceedings*, Vol. 59. This 1424-page volume records the technical accomplishments of the year, including reports and papers, together with discussions, offered to the Society during the year and accepted for the *Proceedings*.

There are 71 reports of technical committees which, together with appendices, provided a wealth of useful information, as do the 44 technical papers and discussions on a wide variety of subjects pertaining to research and standards for materials. An important part of the *Proceedings* is the discussions not previously published which add immeasurably to the value of the technical papers.

In addition to the papers and reports, there are listed all symposia and other special sessions published separately as Special Technical Publications and all papers published in the ASTM BULLETIN.

An important adjunct is a Subject and Author Index to all papers published in any form by the Society in 1959.

Copies of the *Proceedings* may be obtained from the American Society for Testing Materials, 1916 Race Street, Philadelphia 3, Pennsylvania, at $12.00 each.

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AIR SEPARATORS ASSURE VARIED GRADES OF ASBESTOS

The long, slender needles and fibrous masses which are asbestos have proved invaluable as insulating materials, in fiber and chemical retardant roles, as fillers in cements, paints, etc. However, for some uses milled asbestos fibre requires further processing to eliminate excess rock and granular material. Pencils of unopened fibre must also be removed from some asbestos products.

For example, in Johns-Manville's fire-retardant Marinite high-strength-to-low-density-ratio insulating sheet material, any granular pieces would make the finished product inconsistent and could conceivably damage the surface of it as well. In some uses of asbestos cements and floats, as in plastics where asbestos serves as filler material, it is imperative that all oversize and grit be removed. For just such important applications, Canadian Johns-Manville Company Limited assures that all granular material is 65 mesh or smaller, by removing the oversize.

A mechanical air separation technique was adopted at the asbestos processing mill in Asbestos, Quebec, Canada, in 1953, thus, besides supplying crude and milled asbestos to both Johns-Manville and other companies throughout the world, Asbestos—long renowned as Johns-Manville's major mining town—began a "byproduct" operation.

Perhaps "buy-product" would be a better term, for the facility now is serving primarily the surging plastics industry, offering inexpensive filler. Other finished by-products also are sold in Canada for asbestos cements and floats. The asbestos is still mined and shipped in milled form to Johns-Manville's facilities and manufacturing concerns around the globe.

The experience in air separation at the North Billerica, Massachusetts, Marinite board plant of the United States counterpart of Canadian Johns-Manville affected the company's decision to install Sturtevant Separators in Quebec. The New England facility had adopted air separation shortly after World War II. A ten-foot separator, engineered and fabricated by Sturtevant Mill Company, Dorchester, Boston, Massachusetts, was installed.

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Less than a decade later, in 1953, Canadian Johns-Manville also turned to Sturtevant and, between 1953 and 1955, a half-dozen Sturtevant Whirlwind Centrifugal Selectors were installed for classification duties in the new Asbestos plant.

Two of the classifiers are eight feet in diameter, powered by 20-horsepower motors. Three are ten-footers, with 30-horsepower motors. The other is a twelve-foot unit, powered by a 50-horsepower engine. All are used to separate granular and unopened fiber particles from fully-opened fibers from the feed, which is essentially fibrous asbestos.

The feed rate is variable. Required tonnage is "variable up to maximum". The eight foot unit can select just under a ton an hour of the low density asbestos. The twelve-footer, the largest at Johns-Manville, can handle several tons. (In the cement industry, giant sixteen-foot Sturtevants have taken up to 800 tons per hour feed, delivering 30 tph of 90% 200 mesh.) Oversize asbestos particles are recycled, or used for other applications, such as asbestos siding shingles and asbestos papers for roofing.

The Sturtevant Air Separators have been working at the Canadian location an average of 23 hours a day, five or six days a week, for 50 weeks a year, producing fibers of improved quality for wider usage in manufactured products. No major maintenance problems have occurred, despite the practically around-the-clock operations, non-stop, for the last five to seven years.

The asbestos is fed into the Sturtevant units from special feeders, designed particularly for this application by Johns-Manville engineers. Upon entering a separator, the material passes down a chute which delivers it onto the center of a revolving, distributing plate which literally shoots the material off its outer edge in a thin, even, horizontal circular spray. The upper fan of the Separator whirls and sucks the fibrous material upwards through the large top opening of the inner casing while a secondary lower fan, running close to the opening, whirls the upcoming material, centrifugally forcing the predominantly oversize material away from the opening, baffling and forcibly batting away any such material which attempts to

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pass up and out of the unit with the desired fines. By the exacting regulation and control of centrifugal force and air currents, one counteracting and over-balancing the other, simple adjustments allow the selection of almost any desired fineness.

Air separation has enabled Johns-Manville to select and grade asbestos so that it truly can be said to be custom-adapted to the various industries it now serves or may serve in the future. Just as centrifugal selection has been opening new frontiers for aggregate manufacturers and other mineral suppliers, it now is proving itself a vital force in the continually growing asbestos industry—thanks to the pioneering efforts of Canadian Johns-Manville.

Sturtevant Mill Company is playing an important part in this industrial expansion. Air Separators in sizes of from three feet to sixteen feet are offered by the Boston manufacturer. A complete line of auxiliary crushing, grinding and blending machinery also is engineered at the Dorchester plants of Sturtevants.

JOHNS-MANVILLE CORPORATION is now engaged in 26 diversified businesses, is about three times larger in terms of constant sales dollars than at the end of World War II when a quarter billion dollar expansion program was started. J-M sales had grown from $86,000,000 in 1945 to $377,562,000 in 1959, greatly increasing the administrative work load, with the Company still growing.

FRANCIS J. WAKEM, 63, a retired vice-president of the Johns-Manville Corporation, sales division in New York, died May 29, 1960, at his home in Manhasset, Long Island, New York.

Mr. Wakem, a mechanical engineer, was named to head Johns-Manville's packings and friction materials unit in 1955. He retired in 1957.

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MUNDET CORK CORPORATION

Holds First General Sales Meeting

Mundet Cork Corporation, one of the world's principal cork companies and insulation manufacturers, recently held its first general sales meeting in the company's 67-year history. Over 100 sales engineers attended the three-day meeting at the Hotel Roosevelt in New York; one day of the meeting was devoted to a tour of the company's North Bergen and Hillside, New Jersey, plants.

The meeting is one of the first steps by J. J. Mundet in a plan for an aggressive sales program by the company. Mr. Mundet was elected Chairman of the Board and President of the company on Friday, June 17, 1960. This action marked his return to control of the company after an absence of 11 years. During that period, he spent the greater part of his time in supervising the build-up of operations throughout the world. The Mundet company in Portugal, for example, is now that country's second largest industrial enterprise employing over 3,000 people in five plants. Other Mundet companies are located in Canada, Spain and Great Britain.

At the opening session, Mr. Mundet presented an address outlining his plans for the immediate and long-range future. Included are expansion of research activities for new product development, streamlining of certain production operations and even greater concentration on sales efforts in all areas.

In addition to receiving a review of the company's present position in each of the fields it serves, the Mundet sales staff participated in open discussion of company-wide activities and their relation to sales. Management, production, research, accounting and quality control executives were on hand to answer questions pertaining to their respective areas.

THE FLINTKOTE COMPANY, a major producer of corrugated containers and building products, recently announced plans for a new multimillion dollar corrugated container plant to be built at Magnolia, Mississippi.

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A.S.T.M. — ANNUAL MEETING

Technical assistance to underdeveloped countries, in the form of ASTM standards, would provide a wealth of information on materials not available in any other form, and would be a sure way to put international trade in materials on a sound base. These points were made by F. L. LaQue, retiring President of the American Society for Testing Materials, at the President's Luncheon, June 28, 1960, during the 63rd Annual Meeting of ASTM, in Atlantic City, New Jersey.

In outlining the already international scope of ASTM, Mr. LaQue, who is Vice-President for Development and Research of The International Nickel Company, New York, cited as evidence the facts that the Society now has members in more than 50 foreign countries; that in 1959 it received more than 9,000 orders for publications from more than 65 foreign countries, from Afghanistan to the Windward Islands; that for some time it has been making substantial contributions to the work of the International Standards Organization, through the American Standards Association.

"Our government is committeed to a policy of providing technical assistance to other countries, and particularly to what are called 'underdeveloped' countries", said Mr. LaQue. "In the field of materials, the 14,359 pages in the ten volumes of ASTM standards comprise the greatest concentration of immediately and practically usable information that it would be possible to furnish anyone needing such data . . . In most cases, no further work or search for data should be required to characterize a material needed for some specific purpose, whether it be concrete for a wall, steel for a bridge, or fuel for an engine."

Mr. LaQue pointed out that an ASTM standard is the best available way for a foreign purchaser of U.S. materials to describe what he wants and to be sure of getting what he asks for. This is of obvious benefit to domestic producers in increasing the volume of their export business, he said. "A greater use of ASTM standards in foreign trade should go a long way toward improving the demand for such

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high-quality materials and in counteracting the dubious economic advantage of lower-grade materials of uncertain and undefined qualities."

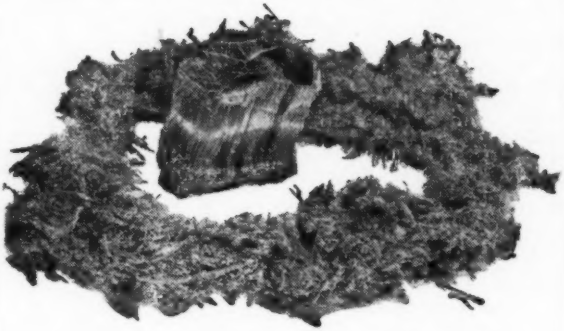
For the U.S. manufacturer, competing in the world market on the basis of superior qualities that can be described, assured, and measured by reliable means, nothing will be more helpful than the general use of ASTM standards in offer and purchase. To help promote the wider use of ASTM standards abroad, said Mr. LaQue, there is a need to translate them into other languages. Steps are already under way to do this for Latin America; and the outgoing president urged that his successors pursue this matter on a broad international scale.

New Officers Elected for 1960-1961

The election of new Society Officers was announced during the luncheon. *A. Allan Bates,* Vice-President of Research and Development, Portland Cement Association, Chicago, Illinois, was elected President of ASTM to serve for a one-year term beginning at the close of the meeting. *Russell Wade Seniff,* Manager of Research, Baltimore and Ohio Railroad, Baltimore, Maryland, was elected Vice-President. *Miles N. Clair,* President, The Thompson & Lichtner Company, Brookline, Massachusetts, will continue as Senior Vice-President of the Society.

New members of the Board of Directors elected for three-year terms were: *Arthur R. Belyea,* Chief Chemical Engineer, Consolidated Edison Company of New York, Inc., New York City; *Leslie V. Cooper,* Manager, Miscellaneous Products Development, Firestone Tire and Rubber Company, Akron, Ohio; *Jay C. Harris,* Assistant Director of Research, Detergents, Research and Engineering Division, Monsanto Chemical Company, Dayton, Ohio; *Jerome J. Kanter,* Directing Engineer, Materials Engineering, Crane Company, Chicago, Illinois; *Robert F. Legget,* Director, Division of Building Research, National Research Council of Canada, Ottawa, Ontario, Canada; and, *William R. Willets,* Assistant Manager, Technical Service Laboratories, Titanium Pigment Corporation, New York City.

Australian Blue Asbestos Limited



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The ASBESTOS TEXTILE INSTITUTE of Philadelphia, Pennsylvania, an international group of asbestos mining companies and textile manufacturers, held a week-long meeting in the world's asbestos center, Thetford Mines, Canada. This is the first meeting ever to be held outside the United States.

Mr. J. T. Griffis, President of the Institute, while addressing a group of asbestos mining and textile officials, stated "when U. S. rockets soar skywards, Canadian asbestos textile products lead the way".

"The temperature of raw asbestos can be raised to 2750 degrees Fahrenheit before the material melts", said Mr. Griffis, Sales Manager of the H. K. Porter Company of Charlotte, North Carolina. "However, many industries are today seeking materials capable of withstanding even higher temperatures particularly in the fields of rocketry, missiles and nuclear energy."

"Through improved techniques and processing, asbestos fibre can withstand temperatures of up to 5500 degrees for a limited period.

"The Argus weather rocket, whose combustion chamber generates a temperature of 5800 degrees during its 59-second space probing flight, has many parts containing materials which incorporate asbestos textiles."

Practically all United States rockets in current production, the Asbestos Textile Institute President revealed, have one or more functional parts which include asbestos.

"Both asbestos and textiles are as old as the hills, but modern techniques and processing have made both materials indispensable in today's high temperature and nuclear power fields."

The very interesting and informative article, "*Profit Potentials In Asbestos Under World-Wide Expansion*", by W. E. Greening, appeared in the May 7, 1960, issue of The Magazine of Wall Street.

Interested readers may borrow a copy of this article by writing "ASBESTOS", 807 Western Saving Fund Building, Philadelphia 7, Pennsylvania.

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Wet Coverage (1-1 ratio)	28.5 Bd. Ft.	27.7 Bd. Ft.
Dry Coverage	18.9 Bd. Ft.	15.5 Bd. Ft.

Information and samples may be obtained from your Carey Asbestos Fibre Sales Engineer or by contacting Carey-Canadian Mines, Ltd., P. O. Box 95, Lockland, Cincinnati 15, Ohio, or Carey-Canadian Mines, Ltd., East Broughton Station, P.Q., Canada.

Carey®

The INSULATION DISTRIBUTOR CONTRACTORS NATIONAL ASSOCIATION will hold its "Fifth Annual Convention and Industry-Wide Meeting" at the American Hotel, Bal Harbour, Florida, November 1 to 4, 1960. Plans are being prepared to make this the best convention in the history of the Association. A very interesting program will be presented. Business sessions will be held in the mornings only, allowing the afternoons and evenings free. Contractors from the 50 states will be present as will representatives of the following seven regional associations: Northeastern Insulation Contractors Association, Inc.; Middle Atlantic Insulation Contractors Association; Associated Asbestos Contractors of the Southeastern States, Inc.; Insulation Contractors Association of the Central States; Midwest Insulation Contractors Association; Southwest Insulation Contractors Association; and, the Associated Insulation Contractors of the Western States.

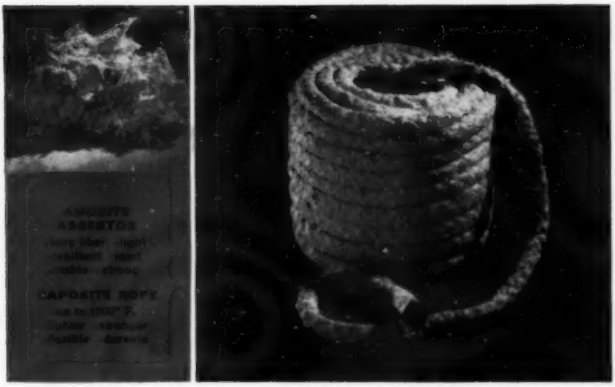
THE FLINTKOTE COMPANY has acquired all outstanding stock of *The Sealzit Company* of Riverside, California, for more than $1 million in a cash transaction, it was announced by I. J. Harvey, Jr., Chairman and Chief Executive Officer of Flintkote.

The Sealzit Company is the manufacturer of Sealzit Guns and accessory equipment widely used in the applications of resins, binders and plastics to make such products as boats, trailers and furniture.

CHARLES A. SAITTA, 69, President of the Asbestos Corporation of America, Garwood, New Jersey, for the past 35 years, died June 12, 1960, following a brief illness.

He was also President of Paterson-Mack Distributers, East Paterson, New Jersey.

Mr. Saitta was born in Leonia, New Jersey, and had lived in Westfield, New Jersey, for the past 35 years, coming there from Brooklyn. Mr. Saitta was Director of the Lions Club of Westfield and a member of Baltusrol Golf Club and Manasquan River Golf Club.



100%

pure Amosite Asbestos CAPOSITE Rope

You can insulate better and cheaper with Caposite Rope because it yields 3 times the footage of ordinary asbestos rope on a pound for pound basis. It can be reapplied repeatedly for service up to 750° F. The flexibility of Caposite provides easy application in all diameters from ¼" to 2". Ask for Bulletin 101 and samples.

NAAC

in the United States
NORTH AMERICAN ASBESTOS CORPORATION
Board of Trade Building · Chicago 4, Illinois

in Canada
CAPE ASBESTOS (CANADA) LIMITED
200 Bloor Street East · Toronto, Ont. · Canada

Subsidiaries of The Cape Asbestos Co. Ltd., London

NATIONAL GYPSUM COMPANY climaxed seven years of exploration, development and construction on June 8, 1960, with ceremonies marking the completion of its new $25,000,000 Great Lakes production network.

The new gypsum plant in Lorain, Ohio, is the final link in the extensive mining and manufacturing system, which can produce enough gypsum building products for 100,000 new homes a year.

NU*SIDE, a product described as "a liquid asbestos siding" that can be applied by brush or spray to wood and masonry has been announced by the NU*SIDE Corporation of 424 West 42nd Street, New York 36, New York.

Available in eleven attractive colors, the manufacturer claims the advantages of this material is that it will not hide or alter the original architectural lines of the building to which it is applied.

NATIONAL SAFETY COUNCIL has published a pamphlet titled, "*Where Do Your Kids Play?*", aimed at the problem of dangerous play areas. It consists of eight pages of text and illustrations and suggests solutions to the safe play area problem.

Further information and suggestions on how to use the publication to build customer good will—as well as to keep employes' children safe—may be obtained from the National Safety Council, 425 North Michigan Avenue, Chicago 11, Illinois.

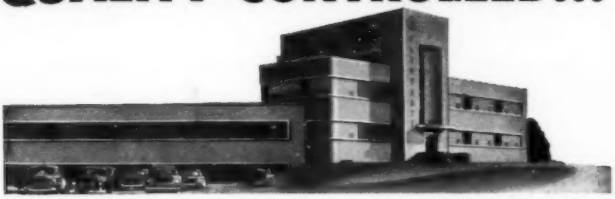
POLYREZ

PHENOLIC RESINS IN
Liquid, Lump and Powder
For All Friction Materials.

POLYREZ COMPANY, INC.

RAILROAD & SO. COLUMBIA WOODBURY, N. J.

QUALITY-CONTROLLED...



Flintkote's modern research center at Whippany, New Jersey provides the facilities and technical know-how to determine the right fibres for diversified product uses.

...FLINTKOTE Asbestos Fibres

You, too, can gain from experience. The Flintkote Company stresses quality—has manufactured quality products for over fifty years—uses quality-controlled asbestos fibres produced by Flintkote Mines in many of its products.

A wide variety of asbestos fibres now available for *your* use.

For further information and descriptive brochure—Write: The Flintkote Company, East Rutherford, New Jersey.

FLINTKOTE MINES, LIMITED

(Subsidiary of The Flintkote Company) Thetford Mines, P. Q., Canada

AUTOMOBILE SALES

	April 1960
Passenger Cars	588,046
Motor Trucks	114,590
Motor Coaches	366
	703,002

In April 1959, a total of 702,952 motor vehicles were sold. In the four months of 1960 the total was 3,069,350.

These figures were supplied by the Automobile Manufacturers Association, New Center Building, Detroit, Michigan.

NATIONAL GYPSUM COMPANY has started construction of a "large new gypsum plant" at Port Tampa, Florida, Chairman Melvin H. Baker disclosed at the Company's annual meeting.

The plant will manufacture gypsum wallboard, lath, sheathing and plasters for the growing Florida building market.

A 12-page catalogue giving the advantages and uses of *Sprayed "Limpet" Asbestos*, has just been released by ATLAS ASBESTOS COMPANY LIMITED.

Copies of this catalogue can be obtained from Atlas Asbestos Company Limited, 5600 Hochelaga Street, Montreal, P. Q., Canada.

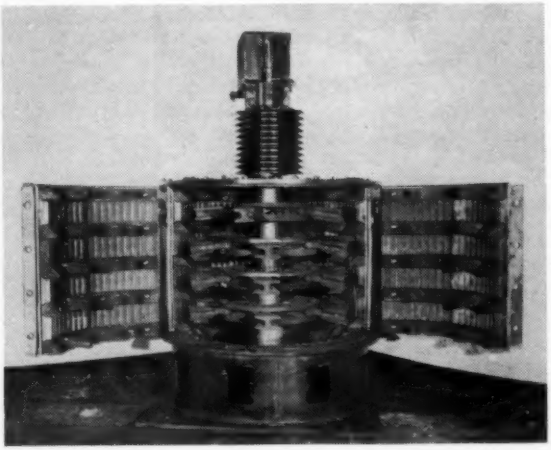
ASBESTOS FIBRES
ASBESTOS WASTE
Frank G. Ruggles Co. Inc.
26 BROADWAY
NEW YORK 4, NEW YORK

Hall Machinery of Canada Limited.

Manufacturers of

Mining and Milling Machinery for the Asbestos Industry

Produced and sold are various items designed and patented by Denovan Ltd., including



Our multi-stage Fiberizer shown above is standard equipment in many Asbestos Mills. Rock up to 2" mesh is introduced at the top and in falling through successive stages is impacted by swinging hammers against serrated shell liners with minimum fibre damage. Capacities up to 50 tons per hour can be obtained.

For information regarding these and other Asbestos Processing equipment, write to:—

Hall Machinery of Canada Limited.

P.O. Box 877,
Sherbrooke, Quebec.

MARKET CONDITIONS

GENERAL BUSINESS.

General business continues good. During the month of May slight improvement was shown in total industrial production, employment, and personal income. This despite the fact that steel production continues to decline and unemployment remains close to five percent of the working force.

On the political front the pot really boiled during June. Rioting in Japan, which caused sudden cancellation of Mr. Eisenhower's scheduled visit, could lead to radical changes in that country's leadership. The effect of such changes coupled with tensions existing in many other parts of the world could well be felt in our economic situation and that of the entire world later this year. It is difficult to be the complete optimist in the face of such tense situations.

ASBESTOS—RAW MATERIAL.

Asbestos fibre shipments for the month of May were up 18,700 tons over May 1959. Shipments to date are running at a rate of 15% ahead of the same period last year, and this trend is expected to continue during the balance of the year.

All fibre grades appear to be in ample supply.

ASBESTOS—MANUFACTURED GOODS.

Asbestos Textiles. The market situation at the present time is fair but recent government buying has assisted in maintaining reasonable volume. The outlook for the rest of the year appears to be fair.

Asbestos Brake Lining. The market situation at the present time for this product is very good and replacement business is ahead of last year. The outlook for the rest of the year should be excellent.

Asbestos Paper. The demand for this product is greatly improved over last year and it is anticipated that the

All machinery for the equipment of plants producing asbestos-cement pipes and sheets

covering the entire production process from the stock preparation to the testing of the finished product.

All machinery for wet or dry preparation of asbestos-cement / Asbestos silos.
Sheet producing machines with one to three cylinder moulds, automatic or semi-automatic combined production lines for flat and corrugated sheets.
Piling equipment combined with cleaning and lubricating machinery for flat and corrugated steel sheets, suitable also for automatic operation / punching and trimming machines / hydraulic presses.
Pipe winding machines for the production of pressure pipes of up to 5 metres (16 ft. 5 in.) length and 1000 millimetres (3 ft. 3 in.) dia / lathes for pipes and joints / cut-off grinders / testing presses for pipes and joints / calenders for the forming of plain and joint-fitted pipes / mandrel pull off machines / autoclaves for hardening of asbestos-cement sheets and pipes as well as many other units, pumps and accessories.

Leaflets describing individual machines will be readily sent on request.

J.M.VOITH A.G

St. Poelten — Austria
P.O.B. 168 / Tel. 2501 / Teletype 01 510

volume will hold up even though prices for every available order are extremely competitive among the manufacturers and distributors. Volume is expected to equal that of last year. Orders for *Asbestos Millboard* have slowed down due to the overall decline in certain phases of the economy, particularly the slow-down in ordering of automotive parts people. It is anticipated that the volume for this year will be just about the same as last year. The market situation at the present time for *Asbestos Saturated Paper* is firm and the outlook for the remainder of 1960 appears to be good.

Asbestos-Cement Products. The market situation at present is only fair; however, the outlook for the remainder of the year is dependent upon an increase in housing starts above present levels and a rise in industrial construction.

High Pressure Insulation. Orders for this material are very slow and there is definite competition among the contractors and manufacturers for business that is available. The outlook for the remainder of the year appears to be somewhat brighter than the first part of 1960 but it will not approach the volume enjoyed in 1959.

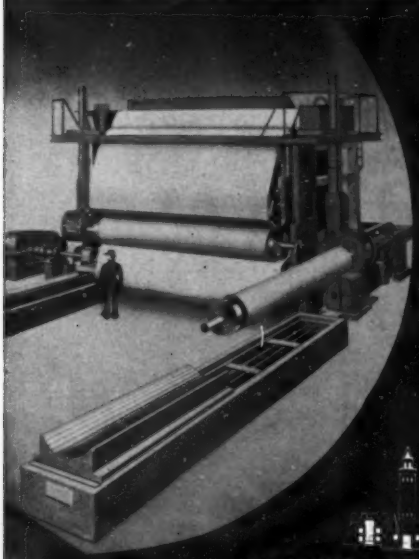
Low Pressure Insulation. Orders for this material have continued to come in, in greater quantity than the early part of the year. There generally seems to be increased building activity during this yart of the year as compared with early in the spring when weather hampered so much construction. The volume for the remainder of 1960 should equal that of last year.

Shingles—Roofing & Siding. Shipments of Asbestos Siding continue at a rate of 20% below 1959. It is estimated that the volume will be off 15% compared to last year.

Asbestos Pipes. The market situation at present is seasonally strong and the outlook will probably be much the same as last year.

The above comments have been made by various informed executives in the Industry. All comments are welcome.

PLANTS TO MAKE ASBESTOS CEMENT LOW AND HIGH PRESSURE PIPES



Fully automatic plants to make Socketed Pipes

Plants for making Asbestos Cement Pipes for OIL PIPELINES

Modern plants for making Asbestos Cement corrugated, flat and flexible SHEETS

Automatic corrugating and stapling machines

Presses up to 10.000 tons pressure

Plants to make Shingles

Plants for making SILICA CEMENT Steam Hardening

ASBESTOS CEMENT ENGINEERING

Hauptstraße 2b
VADUZ-LIECHTENSTEIN
(Switzerland)
P. O. Box 34.649

PLANTS PROJECTED DELIVERED AND STARTED · PARTICIPATIONS TAKEN · FINANCING ARRANGED · AGENTS REQUIRED

BUILDING

Construction contracts in the United States took a downturn in May, F. W. Dodge Corporation reported. The total of $3,336,723,000 for all construction represented a decrease of 6% below May 1959. On a seasonally adjusted basis, the Dodge Index of construction contracts fell from 266 in April to 244 in May (Index base: 1947-49 average equals 100).

According to Dodge vice president and chief economist George Cline Smith, the May decline was accounted for primarily by the housing sector of construction. "Housing contracts have been running well below 1959 levels, and the May figures give no indication of the pick-up which should result from easier money. Conditions in the money markets are not as tight as they have been, but this slight easing has not yet been reflected to any great extent in the mortgage market or in housing contracts. Some improvement in the housing picture should show up in the next few months, however."

May contracts for residential buildings, according to the Dodge figures, were down 13% from May of last year in dollar volume, and down 17% in number of dwelling units covered.

There were some very bright spots in the May contracts, including educational buildings, up 29% over a year ago; manufacturing building, up 20%, and electric light and power systems, up 26%. On the other hand, commercial building contracts were down 10% and highway contracts were down 21%.

Contract totals for the major categories in May, with percentage changes from May 1959, were: total construction, $3,336,723,000 down 6%; non-residential building, $1,109,676,000, up 4%; residential building, $1,452,872,000, down 13%; and, heavy engineering, $774,175,000, down 2%.

Cumulative totals for the first five months of 1960, with percentage changes from the corresponding period of last year, were: total construction at $14,122,786,000, down 7%; non-residential at 4,700,173,000, up one per cent; residential at $6,120,524,000, down 14%; and heavy engineering at $3,302,089,000, down 4%.

asbestos cement department

10, VIA SANTA TERESA

TURIN, ITALY

Manufacturers of all types of Fully Automatic

asbestos cement machinery

Daily output guaranteed according to the International Standard Specification:

150 ton high pressure pipes

300 ton flat and corrugated sheets

THIS AND THAT

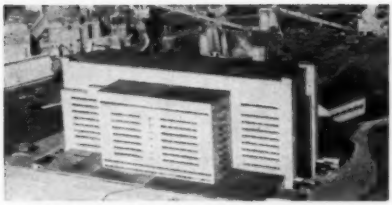
KEASBEY & MATTISON COMPANY, Ambler, Pennsylvania, awarded its Drexel Institute of Technology scholarship to *Joel Lipkin*, 1960 Class of Ambler High School. The scholarship certificate was presented by Robert R. Porter, President and Chairman of the Board of K&M.

In extending congratulations to the 1960 recipient, Mr. Porter pointed out that educational assistance is provided, in the amount of $1800, to a qualified student of Ambler High School whose career plans are directed toward a mechanical or an electrical engineering degree. During the course of study, the student will participate in Drexel's industry co-operative program and work for six-month periods for the sponsoring firm.

The 1959 accident-prevention contest award winners in the Asphalt Industry Bureau's safety drive were announced and presentations made recently in New York City. A walnut and silver plaque was presented to *Keasbey & Mattison Company*, Ambler, Pennsylvania, in recognition of a perfect safety record for 1959, and the continuous accident-free operation of the Company's Perth Amboy, New Jersey, plant for 386 days.

The last of a series of twelve folders, entitled, "*Talks About Canada*", and covering the various aspects of Canadian life was recently published by JOHNSON'S COMPANY LIMITED, Thetford Mines, P. Q., Canada. The folders were printed in four languages—English, French, Spanish and German.

The Johnson's Company Limited will soon publish an illustrated booklet giving more information about the history of the Company and the asbestos which it produces.



Processing in the world's largest asbestos mill

checked by modern control laboratories

. . . makes J-M Asbestos Fibre the dependable ingredient in the batch

Johns-Manville's new asbestos mill at Asbestos, Quebec, is the largest in the world. Yet every batch is scientifically sampled and then analyzed in modern control laboratories to assure the thoroughly accurate grading.

Production, development and control facilities are all centralized under one roof, permitting the unified control of quality and uniformity.

The mill is operated by 600 skilled workers with the latest and most efficient equipment available. Write for information telling why Johns-Manville is best equipped to serve your asbestos fibre needs. Address Asbestos Fibre Division, Canadian Johns-Manville Co., Ltd., P. O. Box 1500, Asbestos, P. Q., Quebec.

JOHNS-MANVILLE

AFRICA (Rhodesia)

(Published by Rhodesian Mining and Engineering)

Tons 2,000 lbs.

Production for February 1960	9,987.80
Valued at	£525,221.00
Production for February 1959	10,325.87
Valued at	£649,104.00

CANADA

(Dept. of Mines, Province of Quebec)

Tons 2,000 lbs.

Production for April 1960 (Quebec)	90,775
Other Provinces	5,278
	96,053

Total production for April 1959 was 98,139 tons.

AUSTRALIA

(Published by Bureau of Mineral Resources)

Tons 2000 lbs. — Quarter Ending September 30, 1959

Production	
Chrysotile	359
Crocidolite	5,805
	6,164
Imports	
Amosite	2,972
Chrysotile	7,583
Crocidolite	50
Other	372
	10,977
Exports	
Chrysotile	57
Crocidolite	3,794
Other	24
	3,875

How to put "SM-O-O-O-TH" in your JOINT CEMENT!

It's the asbestos "floats" in this joint cement that give it such a smooth, grit-free finish. These feather-light fibres of Gold Bond asbestos give *all* joint cements smoother working qualities, eliminate streaks in the finished job.

Gold Bond asbestos "floats" work wonders in Gold Bond joint cement — why not try it in yours? Write for information to National Asbestos Mines, Ltd., Thetford Mines, P. Q., Canada (Subsidiary of National Gypsum Company.)

a step ahead of tomorrow

Gold Bond
INDUSTRIAL PRODUCTS

CYPRUS

(From Inspector of Mines)

	1st Quarter (Ending March 31, 1960)		
	January	February	March
Rock Mined	10,562	36,103	36,075
Rock Treated	..	..	..
Fibre Produced	..	11	..
Fibre Exported	861	250	11

UNION OF SOUTH AFRICA

(Quarterly Information Report—Dept. of Mines)

Tons 2,000 lbs.

	4th Quarter (October, November & December 1959)				
	Production	Local Sales		Exports	
	Tons	Tons	Value	Tons	Value
Amosite	16,335	281	£ 7,853	16,327	£ 792,590
Chrysotile	7,533	915	32,774	8,542	484,520
Cape Blue	17,027	230	16,359	17,812	1,345,524
Transvaal Blue	2,516	6	361	2,830	195,060
Tremolite	..	48	752	..	..
	43,411	1,480	£58,099	45,511	£2,817,694

The 1960 Edition of **The Mining Journal Annual Review,** a unique continuing record of the progress of mining throughout the world, was published on May 26th, 1960.

It is unique in that it is the only available publication giving a prompt annual report on the progress of mining throughout the world in both a technical and economic context.

All recent developments in mineral exploration, mining (both underground and open pit), ore treatment and refining are fully dealt with by recognized authorities.

The cost of this Review is 21 shillings (or U. S. $3.00) per copy, postage paid, and may be obtained from The Mining Journal, 15, Wilson Street, London, E. C. 2, England.

Owners of high grade Tremolite deposit will consider offers to purchase, to extend exploration and development jointly, or to mine and market jointly. Located Southern Yukon Territory of Canada. Ships from the Orient dock 118 miles down the road at deep water port. Reply to Box No. 7RR-AA, "ASBESTOS", 807 Western Saving Fund Building, Philadelphia 7, Pennsylvania.

You'll gain by contacting us

ATTRITION MILLS

We have the men and machines to serve the asbestos industry. Our double-revolving-disc attrition mills, for instance, are proving their superiority in grinding and upgrading asbestos fiber.

These mills reduce screenings and floats to minus 80 mesh.

They upgrade minus 65 mesh fiber.

They fluff fiber.

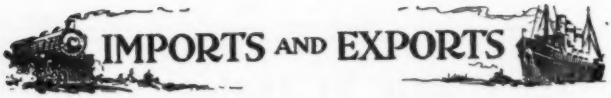
You are invited to ask for literature and complete information. Our engineering and research facilities are at your service.

THE BAUER BROS. CO.

1826 Sheridan Ave. • Springfield, Ohio

Canadian Agents: — Lynn Macleod Engineering Supplies, Ltd., Thedford Mines, Quebec.

Export Agents: — M. Neumunz & Son, Inc., 90 West St., New York 6, N.Y.



Imports Into U.S.A.

(Figures by Bureau of Census)

Unmanufactured Asbestos:	February 1960 Tons (2 240 lbs.)
From: Canada	46,318
Union of South Africa	2,217
Rhodesia (Ny)	99
United Kingdom	55
Other Countries	71
	48,760
Valued at	$5,539,486

By Grades:			
Crude,	No. 1,	Chrysotile, Rhodesia (Ny)	22
Crude,	No. 2,	Chrysotile	2
Crude,	Other,	Chrysotile, U. of S. Africa	357
Crude,	Blue,	Union of South Africa	584
Crude,	Amosite,	Union of South Africa	1,276
Crude,	Amosite,	Rhodesia (Ny)	77
Textile	Fiber,	Chrysotile, Canada	1,535
Shingle	Fiber,	Chrysotile, Canada	7,576
Shingle	Fiber,	Chrysotile, Other Countries	54
Paper	Fiber,	Chrysotile, Canada	3,712
Paper	Fiber,	Chrysotile, Other Countries	1
Other	Fibers,	Chrysotile, Canada	33,495
Other	Fibers,	Chrysotile, United Kingdom	55
Other	Fibers,	Chrysotile, Other Countries	14
			48,760

Manufactured Asbestos Goods:	February 1960 Quantity (lbs.)	Value
Asbestos Yarn		
United Kingdom	47,540	$ 45,535
Other Countries	17,217	13,063
Asbestos Packing	23,514	8,056
Asbestos Shingles (Impreg.)		
Belgium	384,145	40,053
Other Countries	13,620	2,685
A-C Pipe & Fittings (Not Impreg)		
Belgium	2,340,620	178,065
Italy	970,880	44,085
Israel	577,185	29,665

ASBESTOS FIBRE

OF ALL TYPES

BRANDHURST COMPANY LIMITED

Vintry House

LONDON

E. C. 4

Telephone:	Cables:
London Central 1411	Brandcolim
(Private Branch Exchange)	London

Other Countries	159,379	10,116
A-C Mfrs—Other (Not Impreg)	17,789	779
Asbestos Manufactures—Others	..	736
	4,551,889	$372,838

IMPORTS OF ASBESTOS BY UNITED KINGDOM

Raw Materials
Tons 2,240 lbs.

	April 1960
From: Union of South Africa	2,935
Basutoland, Bechuanaland & Swaziland	933
Rhodesia & Nyasaland	3,429
Canada	3,931
Other Commonwealth Countries & Irish Republic	..
Foreign Countries	192
	11,420

Exports From U.S.A.

(Figures by Bureau of Census)

Unmanufactured Asbestos:	March 1960 Tons (2,240 lbs.)	Value
To: Europe	268	$ 48,988
Central America & Mexico	104	12,000
Other Countries	42	9,578
	414	$ 70,566

Manufactured Asbestos Goods:	March 1960 Quantity	Value
Asbestos Cement & Pipe Covering	Lbs. 465,414	$ 143,292
Asbestos Textiles & Yarn	Lbs. 61,355	86,190
Asbestos Packing	Lbs. 197,916	230,431
Asbestos Clutch Facing	No. 143,540	130,822
Asbestos Bk Lng (Mld & S. Mld) Lin Ft.	120,741	69,057
Asbestos Brake Lining, Other	Lbs. 456,281	365,922
Asbestos Construction Material	Lbs. 1,428,232	154,122
Asbestos Manufactures — Others	..	67,274
		$1,247,110

Arthur H. Motley, President of Parade Publications, Inc., of New York, and Publisher of Parade Magazine, will be the next President of the Chamber of Commerce of the United States, the Chamber of Commerce announced on March 8, 1960. Election was by the Board of Directors.

Mr. Motley will serve a one-year term starting May 4, 1960, when he takes office at the Chamber's Annual Dinner. He will succeed **Erwin D. Canham,** Editor of the Christian Science Monitor. Mr. Canham will become Chairman of the Board.

Buvoha Trade Letter—1960, contains a great number of addresses of industrial and commercial firms in the Netherlands interested in trade relations with firms abroad. Firms interested in business relations with Dutch firms can apply for a free copy by writing to the Bureau Voor Handelsinlichtingen, Oudebrugsteeg 16, Amsterdam C., Holland.

BRITISH BELTING AND ASBESTOS LIMITED, Cleckheaton, England, announced the following appointments to the Board of Directors: **P. H. A. Mount,** Mintex Division Sales Manager; **D. M. Pearson,** Mintex Division Works Manager; **J. H. Fenton,** Personnel Manager; and, **C. M. Fenton,** Asbestos Division Works Manager.

ASBESTOS PROCESSING MACHINERY

Crushing, Fiberizing, Blending, Continuous or Batch Dry-mixing of Asbestos-cement

Complete Asbestos Textile Plants Designed to Individual Requirements

New Cards and Improved Intermediate Feeds, Automatic Looms and Cop Winders.

Asbestos Rope Lagging, Millboard, and Non-woven Fabric and Felt-making Machines

Testing Equipment and other machines

TEXTILE IMPROVEMENTS LTD., ASBESTOS DIVISION

22/23 North Street, Guildford, Surrey, Great Britain

Representatives for Gardella Spingard and Twistgard asbestos spinning and twisting machines

We May Have The Machine You Are Looking For

Exports From Canada

(Published by Dominion Bureau of Statistics)

Unmanufactured Asbestos:	March 1960 Tons (2,000 lbs)	Value
Crude		
United States	4	$ 3,281
United Kingdom	..	..
South America	..	..
Central America & Mexico	..	..
European Countries	1	1,396
Other Countries	5	3,755
	10	$ 8,432
Milled		
United States	14,254	$2,839,120
United Kingdom	669	144,661
South America	656	147,672
Central America & Mexico	370	65,410
European Countries	1,407	291,961
Other Countries	3,360	557,470
	20,716	$4,046,394
Shorts		
United States	42,832	$2,282,559
United Kingdom	853	38,399
South America	44	2,787
Central America & Mexico	260	15,860
European Countries	729	38,852
Other Countries	1,902	189,690
	46,620	$2,568,147
Grand Total— Unmanufactured Asbestos:	67,346	$6,622,973
Manufactured Asbestos Goods:		
Brake Lining		52,627
Packing		..
Other Materials		33,394
		$ 86,021

C. Brown Whitley has been appointed Vice President and General Manager of SCANDURA, INC., a manufacturer of conveyor beltings, textile beltings, and automotive and industrial brake linings. Mr. Whitley had been Treasurer and General Manager.

Replacing Mr. Whitley as Treasurer is **Charles P. Miller,** who had been independent auditor for the company for several years.

GEBR. WEHRHAHN

MASCHINENFABRIKEN

P. O. Box 209

DELMENHORST / GERMANY

Manufacturers of the finest and most modern plants for the production of asbestos-cement products, such as

pressure pipes
socket pipes
flat and corrugated sheets

Projecting — Erecting — Handing over in ready-for-operation condition

Get full information! **Write now!**

NEWS OF THE INDUSTRY

HAPPY BIRTHDAY

Thomas L. Gatke, President, Gatke Corporation, Chicago, Illinois, July 16.

L. U. Noland, Chairman of the Board, Noland Company, Inc., Newport News, Virginia, July 17.

Robert R. Porter, Chairman of the Board & President, Keasbey & Mattison Company, Ambler, Pennsylvania, July 17.

G. F. Bahrs, Vice President & Treasurer, The Ruberoid Co., New York City, July 18.

J. F. D. Rohrbach, President, Raybestos-Manhattan, Inc., Passaic, New Jersey, July 18.

R. F. Turner, Promotion Sales Manager, The Philip Carey Manufacturing Company, Cincinnati, Ohio, July 18.

C. B. Whitley, Vice-President & General Manager, Scandura, Inc., Charlotte, North Carolina, July 20.

C. J. Backstrand, President, Armstrong Cork Company, Lancaster, Pennsylvania, July 21.

Laurence W. Clarke, Vice President, The Philip Carey Manufacturing Company, Cincinnati, Ohio, July 21.

R. S. King, Chairman, The Philip Carey Manufacturing Company, Cincinnati, Ohio, July 21.

W. S. Simpson, Director & Secretary, Raybestos-Manhattan, Inc., Bridgeport, Connecticut, July 21.

R. R. Galloway, Vice President, Fibreboard Paper Products Corporation, San Francisco, California, July 22.

J. E. Hooker, Pacific Roofing Company, Portland, Oregon, July 22.

Roscoe E. Tallman, Director of Board, Tallman McCluskey Fabric Company, Kirkwood, Missouri, July 22.

Hilton A. Moberg, President, Arnold Insulations, Inc., Chicago, Illinois, July 25.

Frank C. LeRow, Executive Vice President, Asbestos, Asphalt & Insulation, Inc., Chicago, Illinois, July 26.

P. H. Ryan, Merchandise Manager, Pabco Building Materials Division, Fibreboard Paper Products Corporation, San Francisco, California, July 26.

R. S. Hammond, General Sales Manager, Building Products Division, Johns-Manville Corporation, New York City, July 27.

C. B. Burnett, President & Chief Executive Officer, Johns-Manville Corporation, New York City, July 29.

John Ozurovich, Chairman of the Board of Directors, Atlantic Asbestos Corporation, New York City, July 31.

R. B. Williams, First Vice President, Treasurer & Secretary, The Russell Mfg. Co., Middletown, Connecticut, July 31.

Harry H. Heckroth, Vice President, Penn Supply & Metal Corporation, Philadelphia, Pennsylvania, August 2.

Your dependable, established, volume supplier of high-grade asbestos **for every application is Lake Asbestos of Quebec. LAQ is an independent source of uniform quality chrysotile asbestos fibre and its annual capacity of 100,000 tons is your assurance of continuous supplies. For additional information, call or write Lake Asbestos of Quebec, Ltd., 120 Broadway, New York 5, N. Y., or your nearest sales agent.**

NORTH AMERICAN SALES AGENTS:

California, Los Angeles
E. B. Taylor Company

California, San Francisco
E. M. Walls Company

Colorado, Denver
Braun-Knecht-Heimann Co.

Illinois, Chicago
Central Solvents & Chemicals Co.

Indiana, Indianapolis & Ft. Wayne
Hoosier Solvents & Chemicals Corp.

Kentucky, Louisville
Dixie Solvents & Chemicals Co.

Massachusetts, Allston
D. H. Litter & Co., Inc.

Michigan, Detroit
Baker & Collinson

Missouri, Kansas City & St. Louis
Missouri Solvents & Chemicals Co.

New York, Buffalo
Buffalo Solvents & Chemicals Corp.

New York, New York
D. H. Litter & Co., Inc.

Ohio, Cincinnati
Amsco Solvents & Chemicals Co.

Ohio, Cleveland
A. C. Mueller Co., Inc.

Oregon, Portland
Van Waters & Rogers, Inc.

Pennsylvania, Conshohocken
Van Horn, Metz & Co., Inc.

Texas, Houston
Federated Metals Division

Utah, Salt Lake City
Braun-Knecht-Heimann Co.

Washington, Seattle
Van Waters & Rogers, Inc.

Wisconsin, Milwaukee
Wisconsin Solvents & Chemicals Corp.

In Canada: Toronto & Montreal
Federated Metals Canada, Ltd.

LAKE ASBESTOS OF QUEBEC, LTD.
a subsidiary of American Smelting and Refining Company

ASARCO

C. W. Gregg, Treasurer & Director, The Flintkote Company, New York City, August 3.

G. P. Reilly, Plant Manager, National Gypsum Company, Millington, New Jersey, August 5.

A. P. Keasbey, President, Robert A. Keasbey Company, New York City, August 6.

John Dragisic, President, Inland Insulation Company, Chicago, Illinois, August 9.

Melvin H. Baker, Chairman of the Board, National Gypsum Company, Buffalo, New York, August 11.

Grant V. Wilson, President, Grant Wilson, Inc., Chicago, Illinois, August 11.

To all these gentlemen we extend congratulations and best wishes on the occasion of their birthdays.

Don L. Hinmon has been appointed to the newly-created Office of Senior Operating Vice President to administer three JOHNS-MANVILLE CORPORATION operating Divisions, it was announced by C. B. Burnett, President and Chief Executive Officer.

As a Senior Operating Vice President, Mr. Hinmon will be responsible to the President for the overall production, sales and profits of the Divisions under his administration. He will assume immediate administration of the J-M Fiber Glass Division at Toledo, Ohio, the J-M Industrial Insulations Division at New York and the J-M Dutch Brand Division at Chicago, Illinois, which fabricates consumer and industrial tapes, and electrical insulations.

Robert E. Shamburg and **Beryl G. Metzger** have been promoted to Vice Presidents, UNION ASBESTOS & RUBBER COMPANY, it was recently announced by Edwin E. Hokin, President.

Mr. Shamburg was named Vice President of the company's Espro Tubing Division. He has been with Union Asbestos since 1953 and was General Manager of the division before his promotion.

Mr. Metzger was appointed Vice President of the Material Handling Division. He joined the company as Sales Manager of the division when it was formed in 1958 and was later promoted to General Manager.

Robert J. Drew has been appointed Southern District Sales Manager, Roofing Products, FIBREBOARD PAPER PRODUCTS CORPORATION. During his ten years with Fibreboard, Mr. Drew has held assignments in Sales, Sales Management, Merchandising and Credit.

BELL ASBESTOS MINES LTD.

THETFORD MINES, QUE.

CANADA

Producers of

Raw Asbestos Crudes

& Fibres

Sales Representatives

for

Cassiar Asbestos Corporation Limited

Keasbey & Mattison Company has announced the opening of its new modern New York District Sales Office in the recently completed Time-Life Building, at 111 West 50th Street, New York 20, New York. The announcement was made by N. L. Barr, Vice President—Sales. The Company is a long-time tenant of the Rockefeller Center, having occupied offices at 30 Rockefeller Plaza for almost 25 years. The move is in keeping with K&M's progressive merchandising program to provide the best possible service to customers and prospects.

John F. Simons, Jr. has been appointed Employment Manager in the Personnel Department of KEASBEY & MATTISON COMPANY, Ambler, Pennsylvania, manufacturers of asbestos-cement products and thermal insulations, it was announced by DeWitt W. Keach, Personnel Manager.

Mr. Simons will direct recruitment of office, administrative, and professional personnel and allied employment activities at all Company locations.

Frank Marino has been appointed as "Ferodo" Sales Representative, ATLAS ASBESTOS COMPANY LIMITED, it was announced by J. Dunn, General Sales Manager.

In his new position, Mr. Marino will cover the Montreal area and the Ottawa Valley, representing the complete line of "Ferodo" Automotive and Industrial Friction Materials.

THE BAUER BROS. CO., Springfield, Ohio, has recently made the following executive appointments, as announced by J. C. Shouvlin, President.

Edward L. Rastatter, Vice President—Sales; **James E. Irvine,** Vice President—Engineering; **Ronald G. Goodwin,** Vice President—Pulping Development; **Thomas T. Cowhey,** Vice President and General Manager of The Bauer Bros. Co. (Canada) Limited; **Richard R. Dill,** Manager of Sales—Industrial Equipment; and, **Anton J. Horstman,** Assistant to the Administrative Vice-President.

E. L. Rimbault, Jr. has been appointed Sales Manager of LAKE ASBESTOS OF QUEBEC, LIMITED. Lake Asbestos, which operates an asbestos mine and mill at Black Lake, Quebec, Canada, is a wholly-owned subsidiary of AMERICAN SMELTING AND REFINING COMPANY.

Mr. Rimbault has served as Assistant Sales Manager of the subsidiary company since July of 1959 and replaces **William R. Whitener** who has resigned.

James D. Moran, Assistant Vice President of THE FLINTKOTE COMPANY, has been elected Vice President and General Manager of The Sealzit Company and will direct its operations.

Exporters of

RAW ASBESTOS

ALL GRADES—ALL TYPES

C. J. PETROW & COMPANY (PTY.) LTD.

P. O. BOX 11000

RAND CENTRAL — 165 JEPPE STREET

TOKYO, (JAPAN) — BULAWAYO, (SO. RHODESIA)

JOHANNESBURG - SOUTH AFRICA

INDUSTRIAL SERVICE COMPANY

Builders of

ASBESTOS CEMENT MACHINERY

Our experienced engineers and machinists offer the industry entire machines built to deliver maximum production.

Your Inquiries Are Invited

1-51 Paterson Avenue **E. Rutherford, N. J.**

CURRENT RANGE OF PRICE

As of July 10, 1960

ARIZONA— Per Ton of 2,000 lbs., f.o.b. Globe, Arizona

No. 1 Crude (soft)	$1,475.00	to	$1,800.00
No. 2 Crude (soft)	830.00	to	1,050.00
Group-3 (Filtering & Spinning)	350.00	to	450.00
Group-4 (Plastic & Filtration)	190.00	to	250.00
Group-5 (Plastic & Moulding)	125.00	to	177.00
Group-7 (Refuse & Shorts)	60.00	to	100.00

CANADA— Per Ton 2,000 lbs. f.o.b. Mine Canadian Currency

Group No. 1 (Crude No. 1)	$1,410.00	to	$1,475.00
Group No. 2 (Crude No. 2); Crude Run-of-Mine and Sundry	610.00	to	875.00
Group No. 3 (Spinning Fibre)	350.00	to	650.00
Group No. 4 (Shingle Fibre)	180.00	to	245.00
Group No. 5 (Paper)	120.00	to	150.00
Group No. 6 (Waste, Stucco or Plaster)	..		86.00
Group No. 7 (Refuse or Shorts)	40.00	to	80.00

VERMONT—Per ton of 2,000 lbs. f.o.b. Hyde Park or Morrisville, Vt.

Group No. 3 (Spinning & Filtering)	$ 353.00	to	$ 440.00
Group No. 4 (Shingle Fibre)	181.00	to	218.00
Group No. 5 (Paper Fibre)	120.00	to	142.00
Group No. 6 (Waste, Stucco or Plaster)	..		86.00
Group No. 7 (Refuse or Shorts)	41.00	to	75.00

Seymour Milstein has been elected as a vice president and member of the executive committee of THE RUBEROID CO., manufacturer of building and industrial products.

Mr. Milstein, formerly president of Ruberoid's Mastic Tile Division, continues as vice president and general manager of that division. He is also a member of the board of directors of Ruberoid and of Cumberland Chemical Corporation.

PHILLIPS ASBESTOS MINES

Producers of

CRUDES

and

FIBERIZED ASBESTOS

The World's Finest Fibres

DRAWER 71 GLOBE, ARIZONA

Mines and Mills in Gila Co., Arizona

RAW ASBESTOS DISTRIBUTORS

LIMITED

FOR CANADIAN, RHODESIAN
AND SOUTH AFRICAN ASBESTOS

ASBESTOS HOUSE • 77-79 FOUNTAIN ST. • MANCHESTER 2
ENGLAND

ASBESTOS STOCK QUOTATIONS

(These figures are compiled from the Commercial & Financial Chronicle. No guarantee as to their correctness.)

		June 1960		
	Par	Low	High	Last
Advocate Mines, Ltd.	1	$3.50	$3.65	$3.50
American Brake Shoe	np	40⅛	43⅝	41⅛
Armstrong Cork (Com)	1	42⅛	48	47½
Armstrong Cork (Pfd)	np	78½	81½	81
Asbestos Corporation	np	22½	25	23⅛
Philip Carey	10	25½	28¾	27
Cassiar Asbestos Corp.	np	11	13¼	11¾
Celotex (Com)	1	22	31⅝	22¼
Celotex (Pfd)	20	17	18½	17¾
Certain-Teed	1	11¼	12⅞	11⅝
Fibreboard	np	33	38⅛	33⅞
Flintkote (Com)	5	34½	37⅞	35
Flintkote (Pfd)	np	80	83½	83½
Johns-Manville	5	59⅜	62⅝	61¾
National Gypsum (Com)	1	52⅝	57½	53⅝
National Gypsum (Pfd)	np	90	92	92
Porter, H. K.	100	89⅜	91¼	91
Raybestos-Manhattan	np	61½	64¾	62¼
Ruberoid	1	36⅞	37¾	37¾
Unarco	5	7⅜	8⅝	7⅞
United Asbestos	1	$3.90	$4.90	$4.20
U. S. Gypsum (Com)	4	101	116½	112¾
U. S. Gypsum (Pfd)	100	150¼	155	153¾
U. S. Rubber (Com)	5	54⅛	58¾	54⅛
U. S. Rubber (Pfd)	100	145½	154	153½

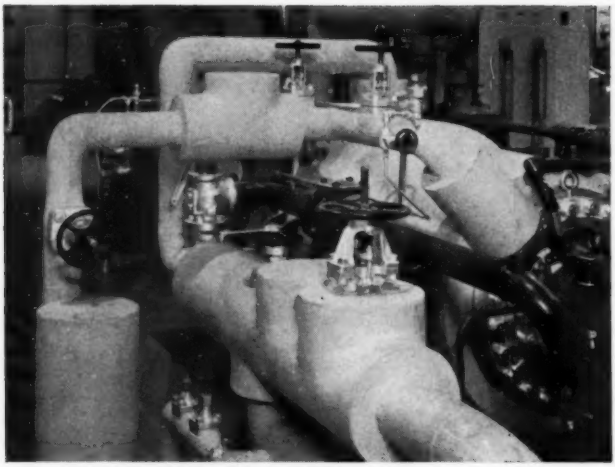
Dominic Shelton-V, former President of The Sealzit Company, is being retained by THE FLINTKOTE COMPANY as a consultant.

" Tropag "

Hamburg —:— Ballindamm 6

Importers since 1909 of

ASBESTOS-ORES-MINERALS



Maximum control of temperatures with

PABCO PRECISION-MOLDED CALTEMP

a Calcium Silicate Insulation

Curb expensive heat loss, control temperatures within minimum tolerances with performance-proved Pabco Insulations. For power plant piping and equipment, a Pabco Insulation insures peak performance wherever temperatures must be maintained up to 1900° F. Pabco's Caltemp and 85% Magnesia insulations are "Precision-Molded" by a patented process in both pipe and block form. For data on technical advantages... case histories... or engineering consultation, write... or call... a Pabco insulation engineer.

INSULATION GUIDE

Temperature	Recommended Pabco Insulation
to 550° F.	85% Magnesia pipe covering • block • cement
to 1200° F.	Caltemp pipe covering • block • cement
to 1500° F.	Prasco 15 C pipe covering • block • cement
to 1900° F.	Prasco 19 C block

PABCO

INDUSTRIAL INSULATIONS DIVISION

Fibreboard Paper Products Corporation
San Francisco 19 • Chicago 54
Houston 4 • New York 16 • Los Angeles

David W. Miller has been appointed District Sales Representative of the California-Oregon-Washington area for GREENE, TWEED & COMPANY, as announced by Walter S. Josephson, Vice-President and General Manager of the firm's main offices and plant in North Wales, Pennsylvania.

A graduate of the University of Pennsylvania's Wharton School of Business, Mr. Miller will be in charge of sales and customer service activities of the firm's full range of Palmetto® products, including self-lubricating, molded, fabric, foil, plastic, filament and sheet packings. He will operate from district headquarters in Los Angeles, California.

Gordon K. Billipp, ARMSTRONG CORK COMPANY Manager of New Product Development, Industrial Division, has been named to succeed **Howard C. Simpson** as the Division's Manager of Floor Product Sales. Mr. Simpson will retire April 1, 1960, after more than 40 years of active service to the Company.

A 1943 graduate of Columbia University, Mr. Billipp joined Armstrong in 1946. A salesman in the Industrial Division for nine years, Mr. Billipp served in the San Francisco, Detroit and Cleveland areas prior to accepting a position as Assistant District Manager of the Company's Cleveland office in 1955. He was promoted to his present office in February, 1959.

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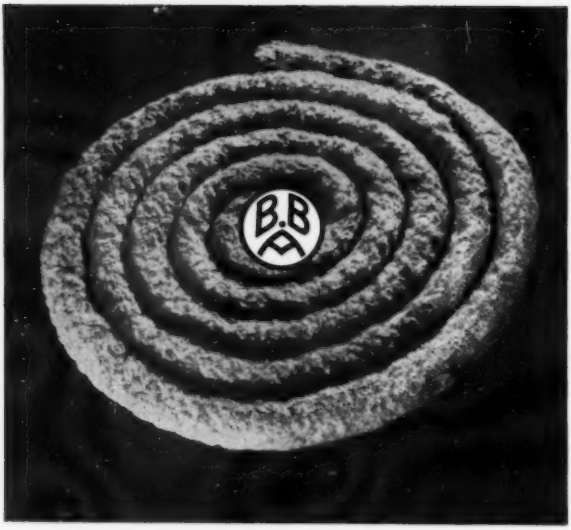
TO MEET YOUR SPECIAL NEEDS IN ASBESTOS TEXTILES . . .

Just let "U. S." know your asbestos textile requirements. We'll break our necks to develop the special yarn, fabric or tape that does the job for you. Spinning and weaving closely controlled for maximum uniformity at our modern Hogansville, Ga. plant.

Write Asbestos Dept., Textile Division

United States Rubber

Rockefeller Center, New York 20, N.Y.



LAGGING IN FRONT

This is B.B.A. Asbestos Fibre-Filled Rope Lagging for Steam Pipe Insulation, one of many of asbestos products, from yarn and rovings to cloth, tapes and jointings of all types and the world-famous MINTEX friction materials and MINTEX Industrial Plastics—made by B.B.A. In production, as in research, we are in the front of our field.

B.B **BRITISH BELTING & ASBESTOS LTD**

CLECKHEATON, YORKSHIRE, ENGLAND

PATENTS

Abstracts of U. S. Patents on Asbestos and Asbestos Products by Oliver S. North.

Copies of patents can be obtained by sending 25 cents, (in coin), to The Commissioner of Patents, Washington 25, D. C., giving the patent number, date it was issued, name of patentee and name of invention.

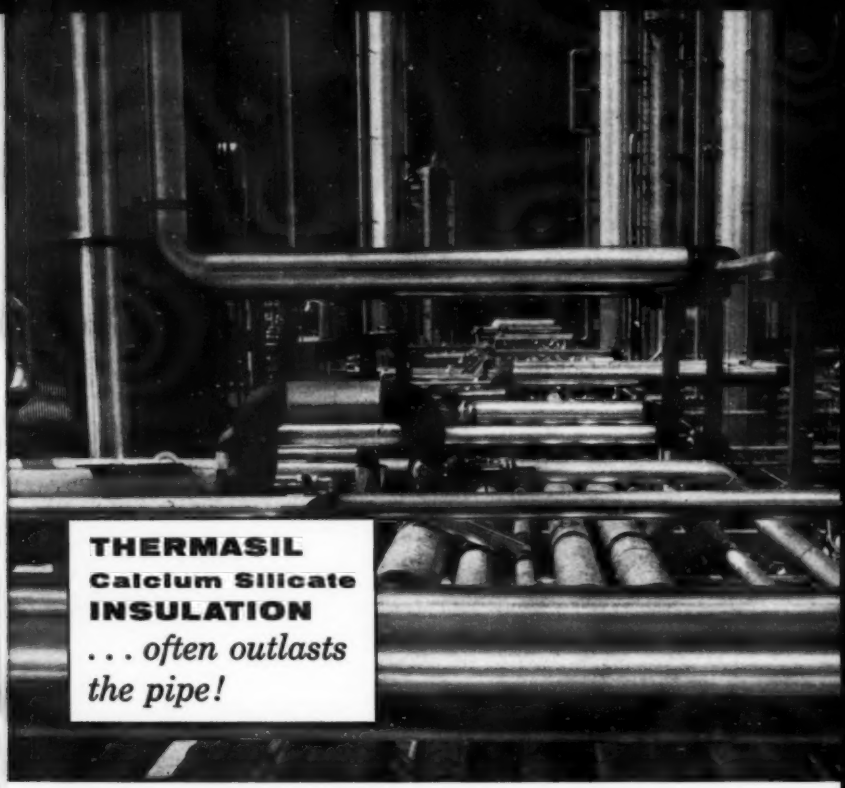
Plastic Asbestos Tile Containing Rosin-Ester Modified Phenol Formaldehyde Resin and a Vinyl Resin, No. 2,926,150. Granted on February 23, 1960 to R. L. Lerch (assigned to Armstrong Cork Company, Lancaster, Pennsylvania). A plastic floor tile having excellent resistance to oils and greases, and good color, strength, and flexibility consists of 30-60% pulverized limestone and pigment, 20-50% asbestos fibre, 2-8% of a vinyl resin, 10-18% of a rosin-ester modified phenol formaldehyde resin, and 5-10% plasticizer.

Synthesis of Chrysotile, No. 2,926,997. Granted on March 1, 1960 to G. L. Kalousek (assigned to Owens-Corning Fiberglas Corporation, a corporation of Delaware). Process for the alteration of the antigorite component of serpentine by acid leaching so as to form a synthetic chrysotile asbestos product. The antigorite fiber is leached with enough hydrochloric acid to remove 5-75% of the magnesium hydroxide content, and then filtered and washed. The resulting product is a colloidal fibre up to 1 micron in diameter and 3 microns in length.

Fibrated Mastic Coatings, No. 2,927,038. Granted on March 1, 1960 to J. F. Schulz (assigned to Patent & Licensing Corporation, New York City). In the production of improved roofing shingles, about 25% of asbestos fibre is mixed with 75% bitumen, and the mixture formed into a thin sheet and sprinkled with additional asbestos fibre up to 68% of the weight of the total composition. The added fibre is then pressed into the sheet while maintaining the temperature above the softening point of the bitumen.

Fire-Retarding Door, No. 2,927,353. Granted on March 8, 1960 to J. C. Snitker (assigned to S.O.S. B-Skod I/S, Aarhus, Denmark). In the construction of a fire-retarding door, the asbestos fibre is inlaid between wood elements in two layers, resembling a double-decker sandwich.

Al Kevelson, of ACE ASBESTOS MANUFACTURING COMPANY, Jersey City, New Jersey, recently announced that controlling interest in the 40-year-old Central Industrial Bank, Brooklyn, New York, has been purchased by a group of businessmen. Mr. Kevelson heads this group.



THERMASIL 85% Magnesia frequently outlives equipment and piping. Moisture resistant and durable, shock resistant and structurally stable, THERMASIL makes your first cost your last. Teamed with sheet aluminum for protection against temperature extremes, sandstorms and tornadoes, THERMASIL is used throughout this Texas refinery to *keep heat balances constant.* For more information on B-E-H THERMASIL and the complete B-E-H line of industrial insulations for temperatures from sub-zero to 1900 F, see your distributor or write for new Catalog.

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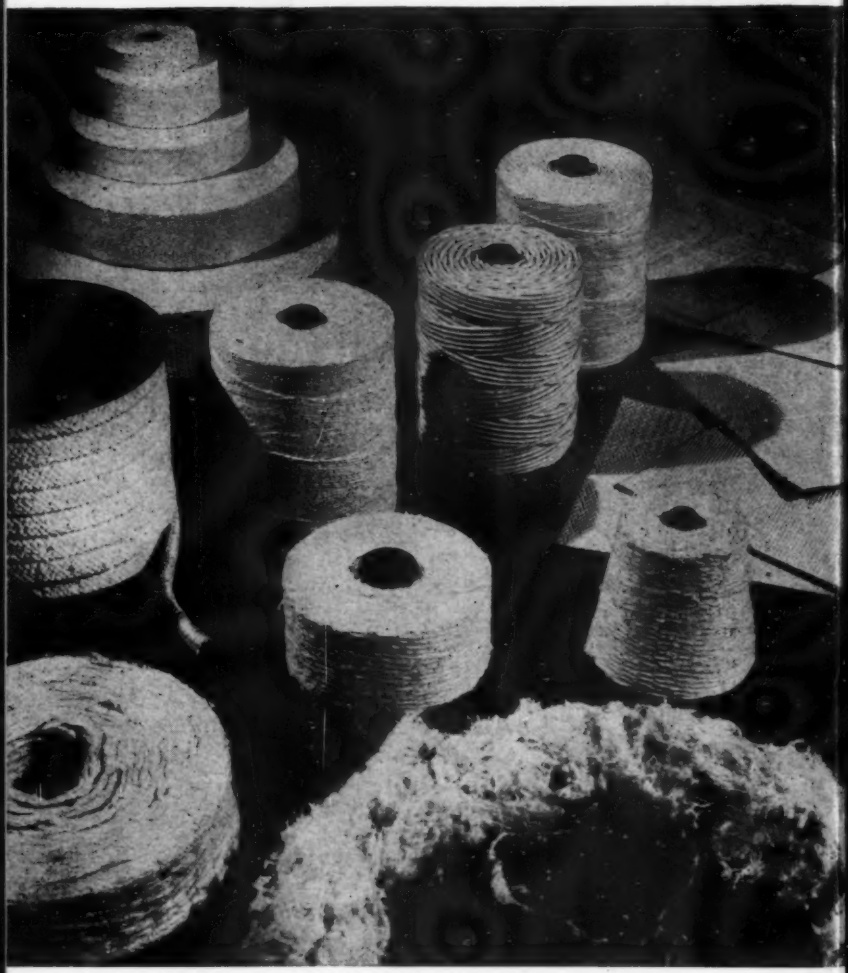
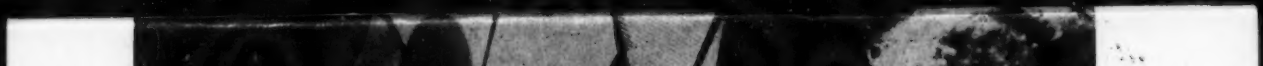
BALDWIN-EHRET-HILL

BALDWIN-EHRET-HILL
500 Breunig Avenue Trenton 2, New Jersey

ASBESTOS — TEXTILES



H. K. PORTER COMPANY, INC.

THERMOID DIV., CHARLOTTE WORKS

CHARLOTTE 1, N. C.